

Complete nucleotide sequence of IP10/MigR (MLRA) cDNA

CCAACCACAA	GCACCAAAGC	AGAGGGGGCAG	GCAGCACACC	ACCCAGCAGC	50
CAGAGCACCA	GCCCAGCCAT	GGTCCTTGAG	GTGAGTGACC	ACCAAGTGCT	100
AAATGACGCC	GAGGTTGCCG	CCCTCCTGGA	GAAC TTCAGC	TCTTCCTATG	150
ACTATGGAGA	AAACGAGAGT	GACTCGTGCT	GTACCTCCCC	GCCCTGCCCCA	200
CAGGACTTCA	GCCTGAACTT	CGACCGGGCC	TTCCTGCCAG	CCCTCTACAG	250
CCTCCTCTTT	CTGCTGGGGC	TGCTGGGCAA	CGGCGCGGTG	GCAGCCGTGC	300
TGCTGAGCCG	GCGGACAGCC	CTGAGCAGCA	CCGACACCTT	CCTGCTCCAC	350
CTAGCTGTAG	CAGACACGCT	GCTGGTGCTG	ACACTGCCGC	TCTGGGCAGT	400
GGACGCTGCC	GTCCAGTGCG	TCTTTGGCTC	TGGCCTCTGC	AAAGTGGCAG	450
GTGCCCTCTT	CAACATCAAC	TTCTACGCAG	GAGCCCTCCT	GCTGGCCTGC	500
ATCAGCTTTG	ACCGCTACCT	GAACATAGTT	CATGCCACCC	AGCTCTACCG	550
CCGGGGGGCC	CCGGCCCCGC	TGACCCTCAC	CTGCCTGGCT	GTCTGGGGGC	600
TCTGCCTGCT	TTTCGCCCTC	CCAGACTTCA	TCTTCCTGTC	GGCCCCACCAC	650
GACGAGCGCC	TCAACGCCAC	CCACTGCCAA	TACAACTTCC	CACAGGTGGG	700
CCGCACGGCT	CTGCGGGTGC	TGCAGCTGGT	GGCTGGCTTT	CTGCTGCCCC	750
TGCTGGTCAT	GGCCTACTGC	TATGCCCCA	TCCTGGCCGT	GCTGCTGGTT	800
TCCAGGGGCC	AGCGGCGCCT	GCGGGCCATG	CGGCTGGTGG	TGGTGGTTCGT	850
GGTGGCCTTT	GCCCTCTGCT	GGACCCCCCTA	TCACCTGGTG	GTGCTGGTGG	900
ACATCCTCAT	GGACCTGGGC	GCTTTGGCCC	GCAACTGTGG	CCGAGAAAGC	950
AGGGTAGACG	TGGCCAAGTC	GGTCACCTCA	GGCCTGGGCT	ACATGCACTG	1000
CTGCCTCAAC	CCGCTGCTCT	ATGCCTTTGT	AGGGGTCAAG	TTCCGGGAGC	1050
GGATGTGGAT	GCTGCTCTTG	CGCCTGGGCT	GCCCCAACCA	GAGAGGGCTC	1100
CAGAGGCAGC	CATCGTCTTC	CCGCCGGGAT	TCATCCTGGT	CTGAGACCTC	1150
AGAGGCCTCC	TACTCGGGCT	TGTGAGGCCG	GAATCCGGGC	TCCCCTTTCC	1200
CCCACAGTCT	GACTTCCCCG	CATTCCAGGC	TCCTCCCTCC	CTCTGCCGGC	1250
TCTGGCTCTC	CCCAATATCC	TCGCTCCCGG	GACTCACTGG	CAGCCCCAGC	1300
ACCACCAGGT	CTCCCGGGAA	GCCACCCCTC	CAGCTCTGAG	GA CTGCACCA	1350
TTGCTGCTCC	TTAGCTGCCA	AGCCCCATCC	TGCCGCCCCA	GGTGGCTGCC	1400
TGGAGCCCCA	CTGCCCTTCT	CATTTGGAAA	CTAAAACTTC	ATCTTCCCCA	1450
AGTGCGGGGA	GTACAAGGCA	TGGCGTAGAG	GGTGCTGCCC	CATGAAGCCA	1500
CAGCCCAGGC	CTCCAGCTCA	GCAGTGA CTG	TGGCCATGGT	CCCCAAGACC	1550
TCTATATTTG	CTCTTTTATT	TTTATGTCTA	AAATCCTGCT	TAAAACTTTT	1600
CAATAAACAA	GATCGTCAGG	ACCTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	1650
TTTTTTTTTT	TTTTTTTTTT	1670			

FIGURE 1

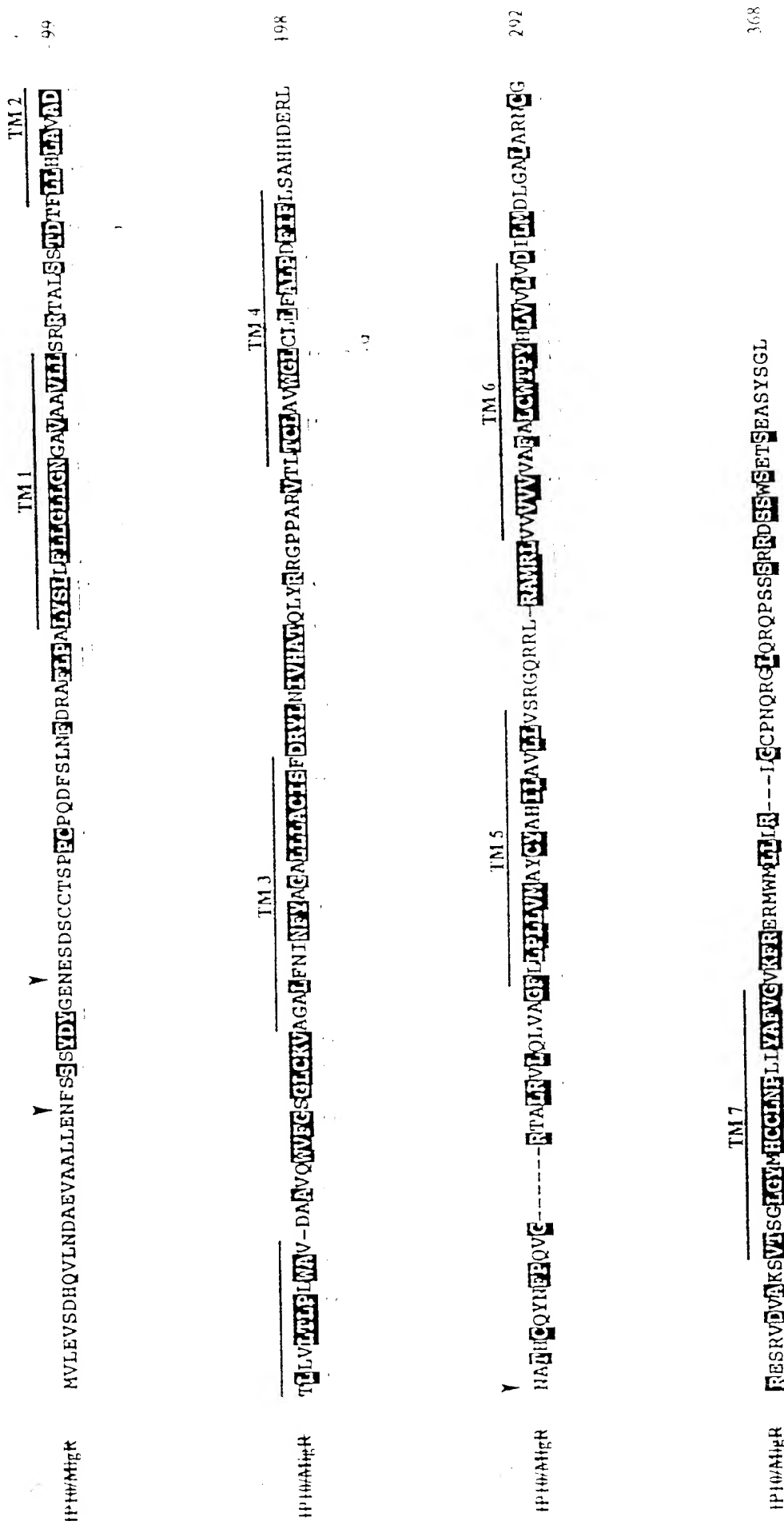


FIGURE 2

CCAACCACAA GCACCAAAGC AGAGGGGCAG GCAGCACACC ACCCAGCAGC CAGAGCACCA	60
GCCCAGCCAT GGTCCCTTGAG GTGAGTGACC ACCAAGTGCT AAATGACGCC GAGGTTGCCG	120
CCCTCCTGGA GAACTTCAGC TCTTCCTATG ACTATGGAGA AAACGAGAGT GACTCGTGCT	180
GTACCTCCCC GCCCTGCCCA CAGGACTTCA GCCTGAACTT CGACCGGGCC TTCCTGCCAG	240
CCCTCTACAG CCTCCTCTTT CTGCTGGGGC TGCTGGGCAA CGGCGCGGTG GCAGCCGTGC	300
TGCTGAGCCG GCGGACAGCC CTGAGCAGCA CCGACACCTT CCTGCTCCAC CTAGCTGTAG	360
CAGACACGCT GCTGGTGCTG AACTGCCGC TCTGGGCAGT GGACGCTGCC GTCCAGTGGG	420
TCTTTGGCTC TGGCCTCTGC AAAGTGGCAG GTGCCCTCTT CAACATCAAC TTCTACGCAG	480
GAGCCCTCCT GCTGGCCTGC ATCAGCTTTG ACCGCTACCT GAACATAGTT CATGCCACCC	540
AGCTCTACCG CCGGGGGCCC CCGGCCCGCG TGACCCTCAC CTGCCTGGCT GTCTGGGGGC	600
TCTGCCTGCT TTTGCGCCCTC CCAGACTTCA TCTTCCTGTC GGCCCACCAC GACGAGCGCC	660
TCAACGCCAC CCACTGCCAA TACAACCTCC CACAGGTGGG CCGCACGGCT CTGCGGGTGC	720
TGCAGCTGGT GGCTGGCTTT CTGCTGCCCC TGCTGGTCAT GGCCTACTGC TATGCCCACA	780
TCCTGGCCGT GCTGCTGGTT TCCAGGGGCC AGCGGCGCCT GCGGGCCATG CGGCTGGTGG	840
TGGTGGTCGT GGTGGCCTTT GCCCTCTGCT GGACCCCTA TCACCTGGTG GTGCTGGTGG	900
ACATCCTCAT GGACCTGGGC GCTTTGGCCC GCAACTGTGG CCGAGAAAGC AGGGTAGACG	960
TGGCCAAGTC GGTCACCTCA GGCCTGGGCT ACATGCACTG CTGCCTCAAC CCGCTGCTCT	1020
ATGCCCTTTGT AGGGGTCAAG TTCCGGGAGC GGATGTGGAT GCTGCTCTTG CGCCTGGGCT	1080
GCCCCAACCA GAGAGGGCTC CAGAGGCAGC CATCGTCTTC CCGCCGGGAT TCATCCTGGT	1140
CTGAGACCTC AGAGGCCTCC TACTCGGGCT TGTGAGGCCG GAATCCGGGC TCCCCTTTG	1200
CCCACAGTCT GACTTCCCCG CATTCCAGGC TCCTCCCTCC CTCTGCCGGC TCTGGCTCTC	1260
CCCAATATCC TCGCTCCCGG GACTCACTGG CAGCCCCAGC ACCACCAGGT CTCCCGGGAA	1320
GCCACCCTCC CAGCTCTGAG GACTGCACCA TTGCTGCTCC TTAGCTGCCA AGCCCCATCC	1380
TGCCGCCCCG GGTGGCTGCC TGGAGCCCCA CTGCCCTTCT CATTTGGAAA CTAAAACTTC	1440
ATCTTCCCCA AGTGCGGGGA GTACAAGGCA TGGCGTAGAG GGTGCTGCCC CATGAAGCCA	1500
CAGCCAGGC CTCCAGCTCA GCAGTGACTG TGGCCATGGT CCCCAGACC TCTATATTTG	1560
CTCTTTTATT TTTATGTCTA AAATCCTGCT TAAAACTTTT CAATAAACAA GATCGTCAGG	1620
ACCTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT	1670

FIG. 1

TM1

▼ ▼
MVLEVS⁹⁰DHQVLNDAEVAALLENFSSSYDYGENESDSCCTSPPCPQDFSLNFDRAFLPALYSLLFLGLGNGAVAAVLLSRRTALSSDT

TM2

TM3

TM4

FLHLAVADTLLVLTPLWAV - DAAVQWVFGSLCKVAGALENINFYAGALLLACISFDRYLNIVHATQLYVRGPPARVTLTCLAVWGLC 179

TM4

TM5

TM6

▼
LLFALPDFIFLSAHHDERLNATHCQYNFPQVG-----RTALRVLQLVAGFLPLLLVMAYCYAHILAVLLVSRGQRRLL-RAMRLVVVVVV 262

TM6

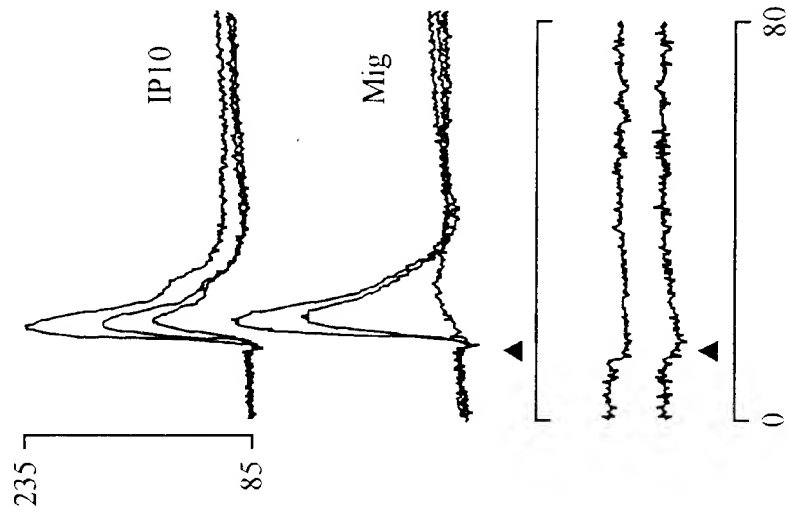
TM7

AFALCWTPTYHLVVLVDILMDLGALARNCGRESRV³⁴⁹VDVAKSVTSGLG³⁴⁹YMHCCCLNPLLYAFVGVKFRERMMMLLR---LGCPNQRGLQRQPS

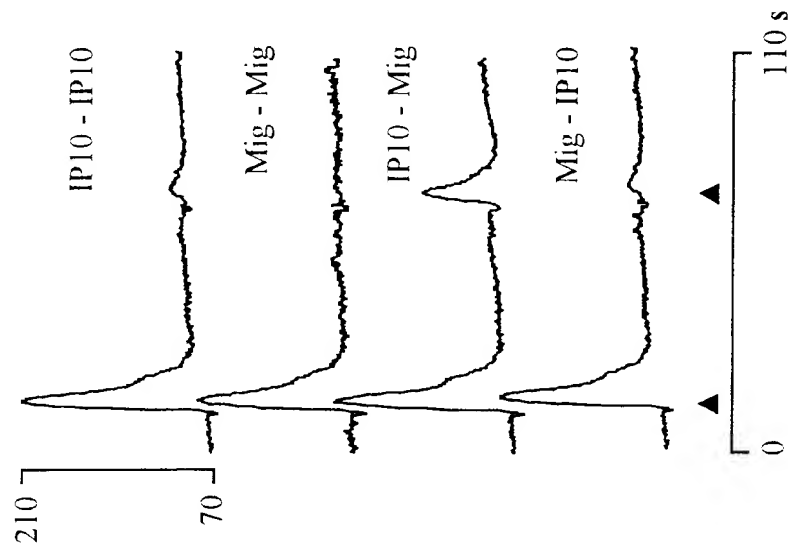
SSRRDSSWSSETSEASYSGL 368

FIG. 2

$[Ca^{2+}]_i$ changes (nM)



Desensitization



Chemotaxis

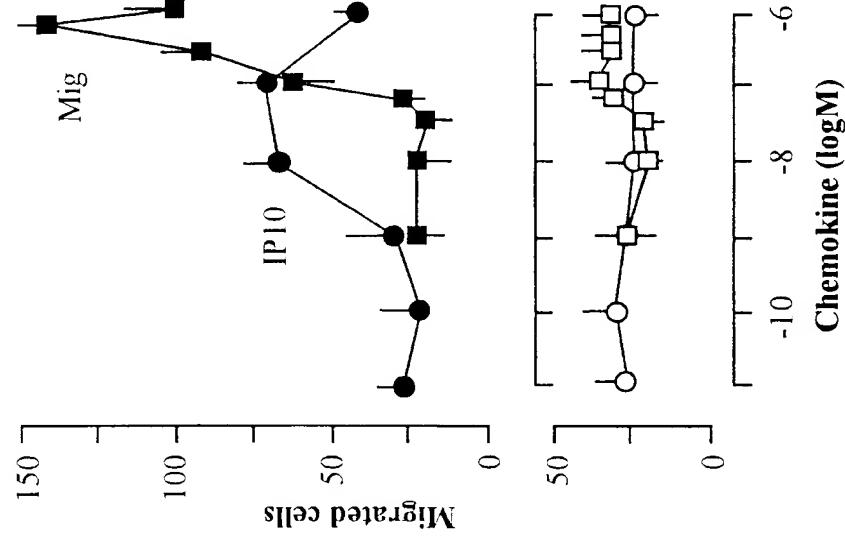


FIG. 3A

FIG. 3B

FIG. 3C

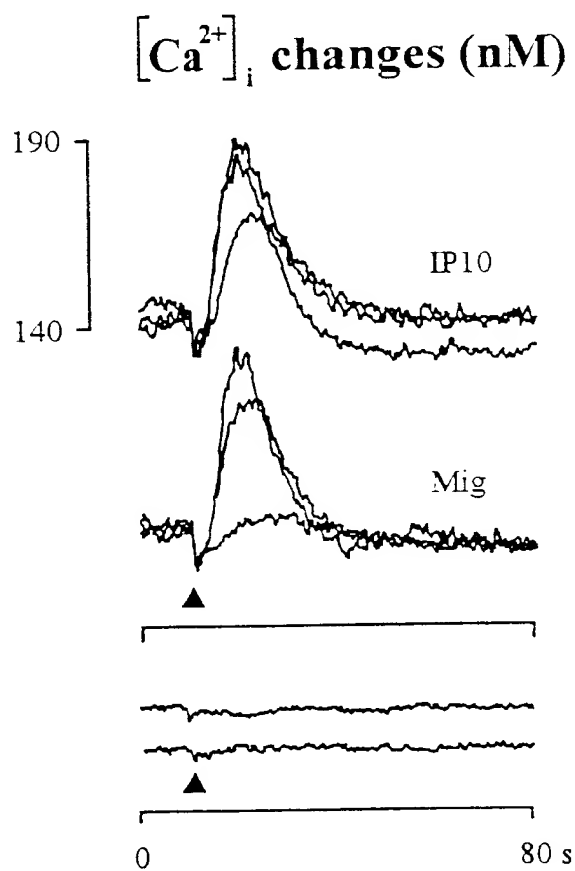


FIG. 4A

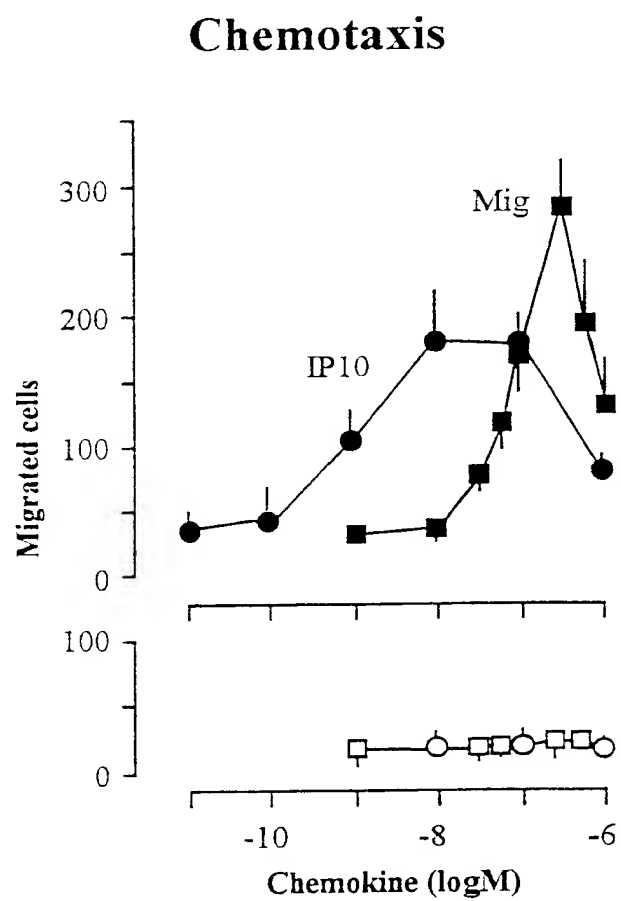


FIG. 4B